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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/768,845	01/23/2001	Mon Nan Ho	2011001	1488
7:	590 10/23/2002			
Keith Kline			EXAMINER	
PRO-TECHTO 20775 Norada	R INTERNATIONAL Court	THAI, LUAN C		
Saratoga, CA 95070-3018			ART UNIT	PAPER NUMBER
			2827	
			DATE MAILED: 10/23/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Å.		, , , , , ,			
		Application No.	Applicant(s)			
ı		09/768,845	HO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Luan Thai	2827			
Period fo	The MAILING DATE of this communicat or Reply	ion appears on the cover sheet w	vith the correspondence address			
THE I - Exter after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) date of period for reply is specified above, the maximum statuto are to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a ation. 1ys, a reply within the statutory minimum of the reprised will apply and will expire SIX (6) MC by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133).			
1)	Responsive to communication(s) filed	on				
2a) <u></u> □	This action is FINAL . 2b)	★ This action is non-final.				
3)[Since this application is in condition for	r allowance except for formal m	atters, prosecution as to the merits is			
Disposit	closed in accordance with the practice ion of Claims	under <i>Ex parte Quayle</i> , 1935 C	.D. 11, 433 O.G. 213.			
4)⊠	Claim(s) 1-11 is/are pending in the app					
	4a) Of the above claim(s) is/are	withdrawn from consideration.				
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-11</u> is/are rejected.					
•	7) Claim(s) is/are objected to.					
	Claim(s) are subject to restrictio	n and/or election requirement.	·			
• -	ion Papers					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) ☐ The oath or declaration is objected to by the Examiner.						
•	under 35 U.S.C. §§ 119 and 120	y the Examiner.				
_		r foreign priority under 35 H.S.C	: 8 119(a)-(d) or (f)			
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a,	○☐ All b)☐ Some * c)☐ None of:1.☐ Certified copies of the priority do	ocuments have been received				
]	2. Certified copies of the priority do		Application No			
	-		en received in this National Stage			
*	application from the Internat See the attached detailed Office action	ional Bureau (PCT Rule 17.2(a)).			
14)	Acknowledgment is made of a claim for	domestic priority under 35 U.S.	C. § 119(e) (to a provisional application).			
15)	a) \square The translation of the foreign lange Acknowledgment is made of a claim for	uage provisional application has domestic priority under 35 U.S.	been received. C. §§ 120 and/or 121.			
Attachme	nt(s)	_				
2) Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTC rrmation Disclosure Statement(s) (PTO-1449) Pap	0-948) 5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)			
U.S. Patent and	Trademark Office		Part of Paper No. 7			

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Request for Continued Examination

A request for continued examination (RCE) under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection.

Applicant's submission filed on 09/23/02 has been entered. An action on the RCE follows.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-6 and 8-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Huang (6,384,472).

The figures and reference numbers referred to in this office action are used merely to indicate an example of a specific teaching and are not to be taken as limiting.

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Regarding claims 1-6 and 8-11, Huang discloses (specifically see figure 7) a process of making a packaging structure of an image sensor, comprising the steps of: preparing a substrate including a plurality of straight metal sheets 304 directly penetrating through the substrate, glue of epoxy mold compound 122 for sealing the metal sheets 304 after the metal sheets are formed, a first surface of the substrate having a periphery, and a second surface opposite to the first surface, the metal sheets 304 being exposed to the outside via the first surface and the second surface to form first contacts and second contacts, respectively; providing a projecting edge 124 on the periphery of the first surface of the substrate to form a concavity above the substrate; mounting an image sensing chip 130 having a plurality of bonding pads 136 (figure 3) onto the first surface of the substrate and within the concavity, directly connecting the bonding pads of the chip to the first contacts on the first surface of the substrate by a plurality of wirings 140, so that electrical signals from the image-sensing chip are capable of being transmitted to the second contacts of the second surface of the substrate; and mounting a transparent layer 142 of glass (Col. 4, lines 24+) arranged on the projecting edge 124 on the first surface of the substrate.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (6,384,472) in view of Lin et al. (5,200,362).

The figures and reference numbers referred to in this office action are used merely to indicate an example of a specific teaching and are not to be taken as limiting.

Regarding claim 7, Huang discloses all the limitations of the claimed invention as detailed above except for the steps of adhering a tape to the metal sheets and tearing the tape after sealing the metal sheets by the glue to form the substrate.

Lin et al while related to a similar package design teach (see specifically figures 1-4) the process of madding a semiconductor device package comprising the steps of adhering a tape 12 to the metal sheets 13, sealing the metal sheets 13 by glue 20 and tearing the tape 12. It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply Lin et al's teachings to Huang process by adhering the metal sheets onto a tape and tearing the tape after sealing the metal sheets by the glue, in order to simplify the process of making the package.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan Thai whose telephone number is (703) 308-1211. The examiner can normally be reached on 7:00 AM - 4:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on (703) 305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Luan Thai October 7, 2002 DITW. Palam 10-16-02 ALBERT W. PALADINI

PRIMARY EXAMINER